

Jacques Peretti

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6016078/publications.pdf>

Version: 2024-02-01

45
papers

1,936
citations

331670

21
h-index

289244

40
g-index

46
all docs

46
docs citations

46
times ranked

2223
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Measurement of Auger Electrons Emitted from a Semiconductor Light-Emitting Diode under Electrical Injection: Identification of the Dominant Mechanism for Efficiency Droop. <i>Physical Review Letters</i> , 2013, 110, 177406.	7.8	564
2	Magneto-optical Effects Enhanced by Surface Plasmons in Metallic Multilayer Films. <i>Physical Review Letters</i> , 1994, 73, 3584-3587.	7.8	165
3	The efficiency challenge of nitride light-emitting diodes for lighting. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 899-913.	1.8	112
4	Apertureless near-field optical microscopy: A study of the local tip field enhancement using photosensitive azobenzene-containing films. <i>Journal of Applied Physics</i> , 2003, 94, 2060-2072.	2.5	101
5	Localization landscape theory of disorder in semiconductors. III. Application to carrier transport and recombination in light emitting diodes. <i>Physical Review B</i> , 2017, 95, .	3.2	95
6	Surface spectroscopy studies of Pb monolayers on Si(111). <i>Surface Science</i> , 1988, 204, 57-68.	1.9	78
7	Localization landscape theory of disorder in semiconductors. II. Urbach tails of disordered quantum well layers. <i>Physical Review B</i> , 2017, 95, .	3.2	78
8	Near-field optical patterning on azo-hybrid sol-gel films. <i>Applied Physics Letters</i> , 2001, 79, 4562-4564.	3.3	66
9	Monitoring the orientation of rare-earth-doped nanorods for flow shear tomography. <i>Nature Nanotechnology</i> , 2017, 12, 914-919.	31.5	65
10	Evidence of Two Distinct Mechanisms Driving Photoinduced Matter Motion in Thin Films Containing Azobenzene Derivatives. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1363-1367.	2.6	58
11	Polarized Luminescence of Anisotropic LaPO ₄ :Eu Nanocrystal Polymorphs. <i>Journal of the American Chemical Society</i> , 2018, 140, 9512-9517.	13.7	48
12	Optically Anisotropic Thin Films by Shear-Oriented Assembly of Colloidal Nanorods. <i>Advanced Materials</i> , 2013, 25, 3295-3300.	21.0	46
13	Spin-Dependent Transmission of Electrons through the Ferromagnetic Metal Base of a Hot-Electron Transistorlike System. <i>Physical Review Letters</i> , 1998, 80, 2425-2428.	7.8	45
14	Determination of the first satellite valley energy in the conduction band of wurtzite GaN by near-band-gap photoemission spectroscopy. <i>Physical Review B</i> , 2014, 89, .	3.2	38
15	Origin of electrons emitted into vacuum from InGaN light emitting diodes. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	36
16	Surface Plasmon-Enhanced Fluorescence Spectroscopy on Silver Based SPR Substrates. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22582-22589.	3.1	33
17	A closer look at the light-induced changes in the mechanical properties of azobenzene-containing polymers by statistical nanoindentation. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11055-11065.	5.5	27
18	Evidence for trap-assisted Auger recombination in MBE grown InGaN quantum wells by electron emission spectroscopy. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	23

#	ARTICLE	IF	CITATIONS
19	Band structure of indium phosphide from near-band-gap photoemission. <i>Physical Review B</i> , 1991, 44, 7999-8008.	3.2	22
20	Remanent photoinduced birefringence in thin photochromic sol-gel films. <i>Applied Physics Letters</i> , 1999, 74, 1657-1659.	3.3	22
21	High-resolution energy analysis of field-assisted photoemission: A spectroscopic image of hot-electron transport in semiconductors. <i>Physical Review B</i> , 1993, 47, 3603-3619.	3.2	21
22	Imaging of magnetic domains with scanning tunneling optical microscopy. <i>Journal of Applied Physics</i> , 1998, 83, 6834-6836.	2.5	21
23	Near-field magneto-optics with polarization sensitive STOM. <i>Ultramicroscopy</i> , 1995, 57, 270-276.	1.9	19
24	Direct measurement of hot-carrier generation in a semiconductor barrier heterostructure: Identification of the dominant mechanism for thermal droop. <i>Physical Review B</i> , 2019, 100, .	3.2	16
25	Novel photoemission approach to hot-electron transport in semiconductors. <i>Physical Review Letters</i> , 1990, 64, 1682-1685.	7.8	15
26	Ultrafast electron dynamics reveal the high potential of InSe for hot-carrier optoelectronics. <i>Physical Review B</i> , 2018, 97, .	3.2	15
27	Optimized combination of intrinsic and form birefringence in oriented LaPO ₄ nanorod assemblies. <i>Applied Physics Letters</i> , 2014, 105, 061102.	3.3	14
28	Transport and magnetic properties of Fe/GaAs Schottky junctions for spin polarimetry applications. <i>Journal of Applied Physics</i> , 2011, 109, 113708.	2.5	13
29	Near-field magneto-optical microscopy. <i>Microscopy Microanalysis Microstructures</i> , 1994, 5, 381-388.	0.4	11
30	Identification of low-energy peaks in electron emission spectroscopy of InGaN/GaN light-emitting diodes. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	10
31	Ultrafast dynamics of hot carriers in a quasi-two-dimensional electron gas on InSe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21962-21967.	7.1	10
32	Quantitative correlation of hot electron emission to Auger recombination in the active region of c-plane blue III-N LEDs. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	10
33	Analytical descriptions of the band structure of direct-band-gap zinc-blende-structure semiconductors in the Kane model. <i>Physical Review B</i> , 1991, 44, 7993-7998.	3.2	8
34	The formation of the Pb/Si(111) interface studied by in situ ellipsometry and surface spectroscopy. <i>Physica Scripta</i> , 1988, 38, 169-171.	2.5	6
35	Design of optical components and optical data storage in photochromic sol-gel films containing dithienylethene or azobenzene derivatives. , 2000, 3943, 32.		6
36	Identification of Auger effect as the dominant mechanism for efficiency droop of LEDs. <i>Proceedings of SPIE</i> , 2014, , .	0.8	5

#	ARTICLE	IF	CITATIONS
37	Low-energy electro- and photo-emission spectroscopy of GaN materials and devices. Journal of Applied Physics, 2015, 117, 112814.	2.5	4
38	Auger effect identified as main cause of efficiency droop in LEDs. SPIE Newsroom, 0, , .	0.1	3
39	Optical Patterning of Sol-Gel Silica Coatings. Advanced Optical Materials, 2016, 4, 313-320.	7.3	2
40	Photoemission of metal-semiconductor structures: Novel spectroscopy for high field transport. Solid-State Electronics, 1989, 32, 1681-1684.	1.4	1
41	Spin-dependent electron transport in ferromagnetic bilayers: Application to three-dimensional spin detectors. Journal of Applied Physics, 2002, 91, 8408.	2.5	1
42	Light-tunable optical cell manipulation via photoactive azobenzene-containing thin film bio-substrate. Nano Select, 0, , .	3.7	1
43	Electron spin polarimeters based on the exchange asymmetry in ferromagnetic layers. , 2002, , .		0
44	Light tunable azopolymers : Photomechanical phenomena and multifunctional materials. , 2019, , .		0
45	In-vivo, in-situ, light-tunable manipulation of cells' biomechanics on a photoactive azobenzene bio-substrate. , 2022, , .		0